

REMARKS

Claims 32-43 are presented for consideration, with Claims 32, 33, 42 and 43 being independent.

The specification has been amended to include the continuing data of the subject application and to improve its idiomatic English form. The abstract has been replaced.

Claims 1-31 have been cancelled and replaced with Claims 32-43.

INFORMATION DISCLOSURE STATEMENT

In compliance with the duty of disclosure under 37 C.F.R. §1.56 and in accordance with the practice under 37 C.F.R. §§1.97 and 1.98, the Examiner's attention is directed to the documents listed on the enclosed Form PTO-1449.

The Examiner's attention is also directed to the following U.S. Application:

<u>INVENTOR(S)</u>	<u>APPLICATION NO.</u>	<u>FILING DATE</u>
Yoichi Takagi, et al.	09/010,618	January 22, 1998

A copy of the above-identified application is enclosed.

In accordance with the provisions of 37 C.F.R. §1.97(d), copies of the listed documents are not enclosed because they are of record in related Application No. 09/330,153.

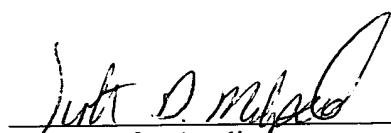
It is respectfully requested that the above information be considered by the Examiner and that a copy of the enclosed Form PTO-1449 be returned indicating that such information has been considered.

CONCLUSION

Due consideration and prompt passage to issue are respectfully requested.

Applicants' undersigned attorney may be reached in our Washington, D.C. office by telephone at (202) 530-1010. All correspondence should continue to be directed to our below-listed address.

Respectfully submitted,

  
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Submitted to the PTO: July 30, 2003

ATTY DOCKET NO.  
**00862.002955.1**APPLICATION NO.  
**To be assigned**APPLICANTS  
**NAOTO ABE, ET AL.**FILING DATE  
**July 30, 2003**GROUP  
**2674**

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4,904,895	02/1990	Tsukamoto, et al.	313	336	
		5,066,833	11/1991	Zalenski	178	19	
		5,066,883	11/1991	Yoshioka, et al.	313	309	
		5,581,278	12/1996	Sugai, et al.	345	187	
		6,067,064	05/2000	Furuhashi, et al.	345	89	
		5,995,074	11/1999	Kusafuka, et al.	345	90	
		5,760,757	06/1998	Tanaka, et al.	345	93	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
		2-257551	10/1990	Japan			Abstract
		4-281137	01/1992	Japan			Abstract
		3-55738	03/1991	Japan			Abstract
		64-31332	02/1989	Japan			Abstract
		1-259324	10/1989	Japan			Y s

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

		M.I. Elinson, et al., "The Emission of Hot Electrons and the Field Emission of Electrons from Tin Oxide", Radio Engineering and Electronic Physics, No. 7, pp. 1290-1296 (July 1965).
		G. Dittmer, "Electrical Conduction and Electron Emission of Discontinuous Thin Films", Thin Solid Films, pp. 317-328 (1972).
		M. Hartwell, et al., "Strong Electron Emission from Patterned Tin-Indium Oxide Thin Films", International Electron Devices Meeting, pp. 519-521 (1975).
		H. Araki, et al., "Electroforming and Electron Emission of Carbon Thin Films", Journal of the Vacuum Society of Japan, Vol. 26, No. 1, pp. 22-29 (January 26, 1983).

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Submitted to the PTO: July 30, 2003

APPLICANTS  
**NAOTO ABE, ET AL.**FILING DATE  
**July 30, 2003**GROUP  
**2674**

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		<b>5,160,871</b>	<b>11/1992</b>	<b>Tomii, et al.</b>	<b>315</b>	<b>366</b>	
		<b>4,397,042</b>	<b>08/1983</b>	<b>Tsujii, et al.</b>	<b>359</b>	<b>158</b>	
		<b>6,204,833</b>	<b>03/2001</b>	<b>Hayashi, et al.</b>	<b>345</b>	<b>58</b>	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
		<b>9-68946</b>	<b>03/1997</b>	<b>Japan</b>			<b>Yes</b>
		<b>3-67446</b>	<b>03/1991</b>	<b>Japan</b>			<b>Abstract</b>
		<b>3-266341</b>	<b>11/1991</b>	<b>Japan</b>			<b>Abstract</b>
		<b>4-308635</b>	<b>10/1992</b>	<b>Japan</b>			<b>Abstract</b>
		<b>5-114372</b>	<b>05/1993</b>	<b>Japan</b>			<b>Abstract</b>

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	<b>W.P. Dyke, et al., "Field Emission", Advances in Electronics and Electron Physics", Vol. 8, pop. 89-185 (1956).</b>
	<b>C.A. Spindt, et al., "Physical Properties of Thin-Film Field Emission Cathodes with Molybdenum Cones", Journal of Applied Physics, Vol. 47, No. 12, pp. 5248-5263 (December 1976).</b>
	<b>C.A. Mead, "Operation of Tunnel-Emission Devices", Journal of Applied Physics, Vol. 32, No. 4, pp. 646-652 (April 1961).</b>
	<b>R. Meyer, "Recent Development on "Microtips" Display at LETI", Technical Digest of IVMC, 91, pp. 6-9 (1991).</b>

EXAMINER

DATE CONSIDERED

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